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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,871	12/04/2006	Hiroshi Inoue	279897US0PCT	1102
²²⁸⁵⁰ O DELON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET			EXAMINER	
			HAWKINS, KARLA	
ALEXANDRIA	ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
			1797	
			NOTIFICATION DATE	DELIVERY MODE
			00/26/2000	EL ECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Application No. Applicant(s) 10/553,871 INOUE ET AL. Office Action Summary Examiner Art Unit KARLA HAWKINS 1797 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 18 June 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1 and 2 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1 and 2 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/S5/08)
 Paper No(s)/Mail Date _______.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5 Notice of Informal Patent Application

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DETAILED ACTION

Claim Rejections - 35 USC § 103

 The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

- Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over KOJI (JP 2002306976A), and further in view of KAZUO (JP 10174838A).
- 3. **KOJI** discloses an organic porous ion exchanger which has an open pore structure wherein a mesopore having a average diameter 1 to 1,000 µm is formed in the wall between a macropore and macropore connected with each other, has a total pore volume of 1-50 ml/g, has an ion exchange groups being uniformly distributed, and has an ion-exchange capacity of 0.5 mg equivalent/g of dried porous material or more, and also describes 10 to 100 µm as the preferred average diameter of the mesopore, as well as the ion-exchange capacity being 4.0 mg equivalent/g of dried porous material (abs.).
- 4. **KOJI** does not appear to expressly disclose an adsorption layer.
- However, KAZUO discloses the use of an ion exchanger as the adsorbent layer of a chemical filter (abs.)

*[KOJI and KAZUO are analogous art because they are from the *problem-solving area* if deionizing water and humidity control.

 At the time of the invention, it would have been obvious to one of ordinary skill in the art to modify the ion exchanger of KOJI to include the use as an adsorbent layer of KAZUO. Application/Control Number: 10/553,871 Page 3

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 The motivation would have been to relax a humidity control and also to improve a treating efficiency and to effectively prevent a breeding of microorganisms (KAZUO, abs.)

- Therefore, the invention as a whole would have been prima facie obvious to one
 of ordinary skill in the art at the time the invention was made.
- With regard to claim 2, KAZUO discloses a conventional cation exchanger and an anion exchanger are used as the ion exchanger to be used (abs.)

Response to Arguments

10. In response to applicant's argument that **KOJI** is nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, KOJI teaches the use of an organic porous ion exchanger with an open mesopore structure of a dried porous material being uniformly distributed with an average diameter and total pore volume within the ranges of Applicant's claims. Therefore KOJI is reasonably pertinent to the particular problem.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in

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the art. See In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, KAZUO teaches that to relax the humidity control and also to improve a treating efficiency and to effectively prevent a breeding of microorganisms at a treating environment by using a material containing at least ion exchanger and controlling a relative humidity at the treating environment in more than a specified value. Although the present inventors have found the process efficiency of an ion exchange chemical filter can be increased by controlling the relative humidity of the environment at 20% or more (Applicants arguments, page 4, paragraph 2), the Applicant's current claims do not mention controlling humidity in any way. The use of the filter as chemical filter is regarded as nothing more than intended usage of the preamble., a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. As the structure of Koji is esentially the same as applicnats structure then, it would be more than capable of being used as a chemical filter.

Conclusion

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. STERTE ET AL. (2002/0038775 A1).
- THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KARLA HAWKINS whose telephone number is (571) 270-5562. The examiner can normally be reached on Monday-Friday 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/DUANE SMITH/ Supervisory Patent Examiner, Art Unit 1797 Karla Hawkins Examiner Art Unit 1797